



4:52 FAX 604 681 4081

OYEN WIGGS ET AL

0003  
DIVISION

2004 DEC 16 fil 3:59

**CERTIFICATE OF FACSIMILE TRANSMISSION**

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Christine Crawford - Assistant to Gavin N. Manning

File No.: C697 0002  
GNM/cc

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Inventor(s): LAW, Randall Allan  
Title: COOLING ARRANGEMENT FOR ELECTRONIC SYSTEMS  
Serial No.: 10/706924  
Filed: 14 November 2003

**RECEIVED**

DEC 22 2004

**OFFICE OF PETITIONS**

Dear Sir:

In our capacity as the Applicant's patent agent for the above identified patent application, we attended to paying the issue fee on 5 November 2004 on a *large entity basis*. PTO form 85B incorrectly referenced the Applicant as a small entity. A copy of the PTO form 85B (copy enclosed) was submitted with the issue fee payment and marked to indicate that Applicant claimed large entity status. We authorized the Commissioner to charge a total of US\$1679 to our Deposit Account No. 02-1037 in payment of the large entity issue fee, publication fee, and fee for 3 copies of the granted patent. A copy of our transmittal letter is also enclosed. As shown in the enclosed copy of our Deposit Account Statement for November 2004, only the small entity issue fee of US\$685 (fee code 2501) has been charged incorrectly to our Deposit Account No. 02-1037 for this case.

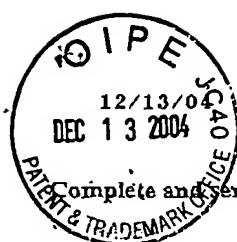
We respectfully request that the PTO charge an additional US\$685 to our Deposit Account No. 02-1037 to ensure that the issue fee is correctly paid on the large entity basis (fee code 1501). A duplicate copy of this request is enclosed.

Respectfully submitted,  
OYEN WIGGS GREEN & MUTALA

By:

Gavin N. Manning  
Registration No. 36,412  
Tel: (604) 669-3432  
Fax: (604) 681-4081

12/21/2004 PTRICE 00000019 021037 10706924  
01 FC:1461 Date: 13 December 2004  
685.00 ea  
Oyen Wiggs Green & Mutala  
#480 - The Station  
601 West Cordova Street  
Vancouver, B.C.  
Canada V6B 1G1



12/13/04 14:49 FAX 604 681 4081

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DEC 13 2004

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## PART B - FEE(S) TRANSMITTAL

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Complete and send this form, together with applicable fee(s), to: MailMail Stop ISSUE FEE  
Commissioner for Patents  
P.O. Box 1450  
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or Fax (703) 746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 3 should be completed when appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS".

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

000720 7590 09/07/2004

OYEN, WIGGS, GREEN & MUTALA  
480 - THE STATION  
601 WEST CORDOVA STREET  
VANCOUVER, BC V6B 1G1  
CANADA

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Note: A certificate of mailing can only be used for domestic mailings of Fee(s) Transmittal. This certificate cannot be used for any other accompany papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission  
I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (703) 746-4000, on the date indicated below.

Christine Crawford

(Depositor's name)

(Signature)

5 November 2004

(D)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/706,924	11/14/2003	Randall A. Law	0132 0002	7848

TITLE OF INVENTION: COOLING ARRANGEMENT FOR ELECTRONIC SYSTEMS

12/15/2004 SFELEKE2 00000058 021037 10706924

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE DUE	DATE DUE
nonprovisional	YES NO	\$665 \$1370	\$300	\$965	12/07/2004

EXAMINER	ART UNIT	CLASS-SUBCLASS
VU, HIEN D	2833	439-061000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

 Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list

(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,

(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 Oyen Wiggs Green &amp; Mutala

2 \_\_\_\_\_

3 \_\_\_\_\_

## 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed in accordance as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

## (A) NAME OF ASSIGNEE

## (B) RESIDENCE: (CITY and STATE OR COUNTRY)

CRAY CANADA INC.

BURNABY

CANADA

Please check the appropriate assignee category or categories (will not be printed on the patent):  Individual  Corporation or other private group entity  Government

4a. The following fee(s) are enclosed:

## 4b. Payment of Fee(s):

 Issue Fee A check in the amount of the fee(s) is enclosed. Publication Fee (No small entity discount permitted) Payment by credit card. Form PTO-2038 is attached. Advance Order - # of Copies 3 The Director is hereby authorized to charge the required fee(s), or credit any overpayment. Deposit Account Number 02-1037 (enclose an extra copy of this form).

## 5. Change in Entity Status (from status indicated above)

 a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above. NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant, a registered attorney or agent, or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature

Typed or printed name GAVIN N. MANNING

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Date 5 NOVEMBER 2004

Registration No. 36,412

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 14

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PTO-85 (Rev. 08/04) Approved for use through 04/30/2007  
Valid date: 12/15/2004 SFELEKE2 00000058 021037 10706924

12/15/2004 SFELEKE2 00000058 021037 10706924

01-FC:1501 1400.00 CR

02-FC:1504 300.00 CR

08AUG04RCVD AT 12/13/2004 5:49:21 PM [Eastern Standard Time] \* SVR:USPTO-EFXRF-2/4 \* DNIS:7464000 \* CSID:604 681 4081 \* DURATION (mm:ss):02:58

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PHONE: (604) 669-3432

FAX: (604) 681-4081

owgm@patentable.com  
www.patentable.com

Gerald O.S. Oyen\* Blake R. Wiggs\*  
Bruce M. Green\* Catherine D. Matala\*  
David J. McGruder Thomas W. Bailey\*  
Gavin N. Manning\* George F. Kondor  
Hilton W. C. Sue Craig A. Ash  
Richard A. Johnson Todd A. Retray  
Grace S. Law Mark A. Hopkinson  
\* Law Corporation

INTELLECTUAL PROPERTY LAWYERS  
REGISTERED PATENT AND TRADEMARK AGENT480 - THE STATION  
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V8B 1G1

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Christine Crawford - Assistant to Gavin N. Manning

13 December 2004

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To: Mail Stop Issue Fee *By fax no. 1-703-746-4000*  
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Alexandria, VA 22313-1450

From: Gavin N. Manning

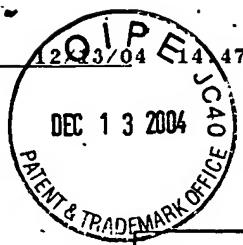
Re:  
Inventor(s): LAW, Randall Allan  
Title: COOLING ARRANGEMENT FOR ELECTRONIC SYSTEMS  
Serial No.: 10/706924  
Filed: 14 November 2003  
Our File: C697 0002

**ENCLOSURES**

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Filed: 14 November 2003

**TRANSMITTAL LETTER**

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Assistant Commissioner for Patents  
P O Box 1450  
Alexandria, VA 22313-1450

Enclosed for filing in the above-referenced application are the following:

(X) Letter to Commissioner (in duplicate), including a copy of PTO form 85B dated 5 November 2004; a copy of a transmittal letter signed by Gavin N. Manning dated 5 November 2004; and a copy of the November 2004 statement for deposit account No. 02-1037.

The Commissioner is hereby authorized to charge any additional fees or credit overpayment, to Account No. 02-1037, which may be required in connection with:

( ) filing of this application  
(X) issuance of a patent

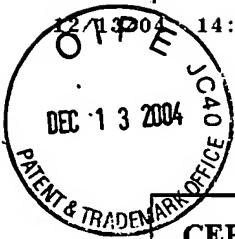
Respectfully submitted,  
OYEN WIGGS GREEN & MUTALA

By:

Gavin N. Manning  
Registration No. 36,412  
Tel: (604) 669-3432  
Fax: (604) 681-4081

Date: 13 December 2004

Oyen Wiggs Green & Mutala  
#480 - The Station  
601 West Cordova Street  
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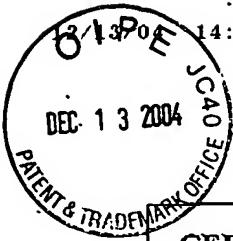
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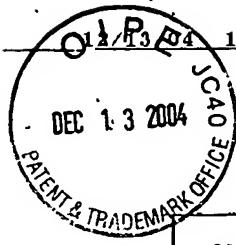
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Dear Sir:

**OFFICE OF PETITIONS**

Title: COOLING ARRANGEMENT FOR ELECTRONIC SYSTEMS  
Inventor(s): LAW, Randall Allan  
Serial No.: 10/706924  
Filed: 14 November 2003  
Examiner: VU, Hien D Art Unit: 2833

Enclosed for filing in the above-referenced application are the following:

- PTO Form 85B in duplicate
- Issue Fee (\$1370)
- Publication Fee (\$300)
- Advance order of 3 copies (Fee \$9 (\$3/copy))
- The Commissioner is hereby authorized to charge the indicated fees (\$1679) to Account No. 02-1037.
- The Commissioner is hereby authorized to charge payment of any fees associated with this communication or credit any overpayment, to Deposit Account No. 02-1037.

Respectfully submitted,  
OYEN WIGGS GREEN & MUTALA

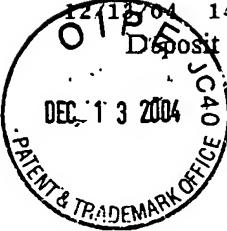
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By:

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Deposit Account Statement

Requested Statement Month: November 2004  
 Deposit Account Number: 021037  
 Name: OYEN WIGGS GREEN & MUTALA  
 Attention:  
 Address: 601 WEST CORDOVA ST  
 City: VANCOUVER  
 State:  
 Zip: V6B 1G1

DATE	SEQ	POSTING REF	ATTORNEY DOCKET NBR	FEES CODE	AMT	BAL
11/02	5	5642015	BRW 10080192	1552	\$2,150.00 ✓	\$27,579.00
11/02	66	10316066	L328 0001	1806	\$180.00 ✓	\$27,399.00
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11/03	126	78509997	W338 0006 GFK	7001	\$670.00 ✓	\$25,950.00
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11/04	226	10977016	V1640010	8021	\$40.00 ✓	\$25,845.00
11/05	3	10848226	W402001 HWCS/RAJ/AS	8001	\$9.00 ✓	\$25,836.00
11/05	70	10706924	(6970002)	2501	\$685.00 ✓	\$25,151.00
"	71	10706924	(6970002)	1504	\$300.00 ✓	\$24,851.00
"	72	10706924	(6970002)	8001	\$9.00 ✓	\$24,842.00
11/08	1	90007277	C5250379	1812	\$2,520.00 ✓	\$22,322.00
11/08	14	10943022	C6880002	2001	\$385.00 ✓	\$21,937.00
11/08	15	10943022	C6880002	2201	\$86.00 ✓	\$21,851.00
11/08	16	10943022	C6880002	2202	\$162.00 ✓	\$21,689.00
11/09	39	5655885	H180 0013 ENM	2552 ENM	\$1,075.00	\$20,614.00
11/09	93	E-REPLENISHMENT		9203	-\$10,000.00	\$30,614.00
11/10	70	60625961	P133 0032	2005	\$80.00 ✓	\$30,534.00
11/12	2	6193070	P 257 0004 ENM	2551	\$455.00 ✓	\$30,079.00
11/12	33	60626446	B596 0002	2005	\$80.00 ✓	\$29,999.00
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11/16	120	10125386	A4654006	A2900029	\$300.00 ✓	\$27,519.00
11/16	230	29194781	S425 0006 GFK	2502	\$245.00 ✓	\$27,274.00

START

SUM OF

SUM OF

END



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## OYEN WIGGS GREEN &amp; MUTALA

INTELLECTUAL PROPERTY LAWYERS  
REGISTERED PATENT AND TRADEMARK AGENTS

Gerald O.S. Oyen\*      Blake R. Wiggs\*  
Bruce M. Green\*      Catherine D. Mutala\*  
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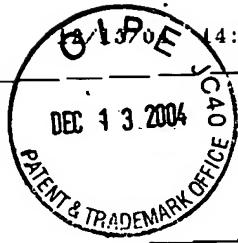
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OFFICE OF PETITIONS

Christine Crawford - Assistant to Gavin N. Manning

*[Signature]*

File No.: C697 0002  
GNM/cc

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Inventor(s): LAW, Randall Allan  
Title: COOLING ARRANGEMENT FOR ELECTRONIC SYSTEMS  
Serial No.: 10/706924  
Filed: 14 November 2003

Mail Stop Issue Fee  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

In our capacity as the Applicant's patent agent for the above identified patent application, we attended to paying the issue fee on 5 November 2004 on a *large entity basis*. PTO form 85B incorrectly referenced the Applicant as a small entity. A copy of the PTO form 85B (copy enclosed) was submitted with the issue fee payment and marked to indicate that Applicant claimed large entity status. We authorized the Commissioner to charge a total of US\$1679 to our Deposit Account No. 02-1037 in payment of the large entity issue fee, publication fee, and fee for 3 copies of the granted patent. A copy of our transmittal letter is also enclosed. As shown in the enclosed copy of our Deposit Account Statement for November 2004, only the small entity issue fee of US\$685 (fee code 2501) has been charged incorrectly to our Deposit Account No. 02-1037 for this case.

We respectfully request that the PTO charge an additional US\$685 to our Deposit Account No. 02-1037 to ensure that the issue fee is correctly paid on the large entity basis (fee code 1501). A duplicate copy of this request is enclosed.

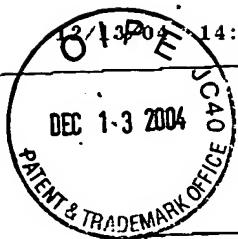
Respectfully submitted,  
OYEN WIGGS GREEN & MUTALA

By:

Gavin N. Manning  
Registration No. 36,412  
Tel: (604) 669-3432  
Fax: (604) 681-4081

Date: 13 December 2004

Oyen Wiggs Green & Mutala  
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Christine Crawford - Secretary to Gavin N. Manning

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Date: 5 November 2004  
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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Mail Stop Issue Fee  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Transmitted herewith for filing in regard to the patent application of:

Title: COOLING ARRANGEMENT FOR ELECTRONIC SYSTEMS  
Inventor(s): LAW, Randall Allan  
Serial No.: 10/706924  
Filed: 14 November 2003  
Examiner: VU, Hien D Art Unit: 2833

Enclosed for filing in the above-referenced application are the following:

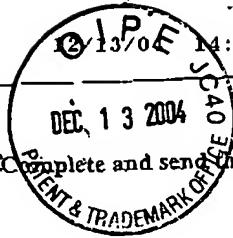
- PTO Form 85B in duplicate
- Issue Fee (\$1370)
- Publication Fee (\$300)
- Advance order of 3 copies (Fee \$9 (\$3/copy))
- The Commissioner is hereby authorized to charge the indicated fees (\$1679) to Account No. 02-1037.
- The Commissioner is hereby authorized to charge payment of any fees associated with this communication or credit any overpayment, to Deposit Account No. 02-1037.

Respectfully submitted,  
OYEN WIGGS GREEN & MUTALA

**COPY**

By: Gavin N. Manning  
Registration No. 36,412

Oyen Wiggs Green & Mutala  
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## PART B - FEE(S) TRANSMITTAL

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Complete and send this form, together with applicable fee(s), to: Mail

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or Fax (703) 746-4000

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notifications of maintenance fees will be mailed to the current correspondence address indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

000720 7590 09/07/2004  
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Note: A certificate of mailing can only be used for domestic mailings of Fee(s) Transmittal. This certificate cannot be used for any other accompany papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

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I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (703) 746-4000, on the date indicated below.

Christine Crawford

(Depositor's name)

(Signature)

5 November 2004

(D)

APPLICATION NO.	FILED DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/706,924	11/14/2003	Randall A. Law	0132 0002	7648

TITLE OF INVENTION: COOLING ARRANGEMENT FOR ELECTRONIC SYSTEMS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES NO	\$665 \$1370	\$300	\$965	12/07/2004
EXAMINER	ART UNIT	CLASS-SUBCLASS			
VU, HIEN D	2833	439-061000			

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

Change of correspondence address (or Change of Correspondence Address form PTO/SB/12) attached.

"Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list:

(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,  
(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

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2 \_\_\_\_\_

3 \_\_\_\_\_

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed in accordance as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

CRAY CANADA INC.

BURNABY

CANADA

Please check the appropriate assignee category or categories (will not be printed on the patent):  Individual  Corporation or other private group entity  Government

4a. The following fee(s) are enclosed:

4b. Payment of Fee(s):

Issue Fee  
 Publication Fee (No small entity discount permitted)  
 Advance Order - # of Copies 3

A check in the amount of the fee(s) is enclosed.  
 Payment by credit card. Form PTO-2038 is attached.  
 The Director is hereby authorized to charge the required fee(s), or credit any overpayment Deposit Account Number 02-1037 (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.  
 b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above. NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant, a registered attorney or agent, or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature

Typed or printed name GAVIN N. MANNING

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Date 5 NOVEMBER 2004

Registration No. 36,412

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, submitting the completed application to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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Deposit Account Statement

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Requested Statement Month:

November 2004

Deposit Account Number:

021037

Name:

OYEN WIGGS GREEN & MUTALA

Attention:

601 WEST CORDOVA ST

Address:

VANCOUVER

City:

State:

V6B 1G1

Zip:

DATE	SEQ	POSTING REF	ATTORNEY DOCKET NBR	FEE CODE	AMT	BAL
11/02	5	5642015	BRW 11008 0192	1552	\$2,150.00 ✓	\$27,579.00
11/02	66	10316066	L328 0001	1806	\$180.00 ✓	\$27,399.00
11/02	93	10977016	V1640010	2001	\$395.00 ✓	\$27,004.00
11/02	94	10977016	V1640010	2201	\$132.00 ✓	\$26,872.00
11/02	95	10977016	V1640010	2202	\$252.00 ✓	\$26,620.00
11/03	126	78509997	W338 0006 GFK 7001		\$670.00 ✓	\$25,950.00
11/03	182	10917376	U008 0597	2051	\$65.00 ✓	\$25,885.00
11/04	226	10977016	V1640010	8021	\$40.00 ✓	\$25,845.00
11/05	3	10648226	HWCS/RAJ/AS	8001	\$9.00 ✓	\$25,836.00
11/05	70	10706924	(697 0002 )	2501	\$685.00 ✓	\$25,451.00
"	71	10706924	(697 0002 )	6NM 1504	\$300.00 ✓	\$24,851.00
"	72	10706924	(697 0002 )	8001	\$9.00 ✓	\$24,842.00
11/08	1	90007277	C5250379	1812	\$2,520.00 ✓	\$22,322.00
11/08	14	10943022	C6880002	2001	\$385.00 ✓	\$21,937.00
11/08	15	10943022	C6880002	2201	\$86.00 ✓	\$21,851.00
11/08	16	10943022	C6880002	2202	\$162.00 ✓	\$21,689.00
11/09	39	5655885	H180 0013 6NM	2552 6NM	\$1,075.00	\$20,614.00
11/09	93	E-REPLENISHMENT		9203	-\$10,000.00	\$30,614.00
11/10	70	60625961	P133 0032	2005	\$80.00 ✓	\$30,534.00
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11/16	120	10125386	A26540016	A2900029 1504	\$300.00 ✓	\$27,519.00
11/16	230	29194781	S425 0006 GFK	2502	\$245.00 ✓	\$27,274.00

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